



The provided **Mineral Water Bottling Plant** is designed in accordance with international quality standards and is fit for drinking, pharma, and other uses. Industries can employ Waterman Engineers Australia **bottle water plant** to address drinking water challenges. Due to its exceptional qualities, our *mineral water bottle manufacturing facility* is well-known in the industry. This bottled mineral water plant is easily available to our clients in a variety of configurations to suit their requirements.

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# MINERAL WATER BOTTLING PLANT

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The demand for bottled mineral water is increasing as people are becoming more health conscious. It contains large quantities of minerals and gases. It comes from underground reserves and isn't chemically processed. Minerals that are often present in mineral water are calcium, magnesium, potassium, sodium, bicarbonate, iron and zinc. Mineral water is bottled at the source unlike tap water and undergoes filtration and extensive treatment to achieve the highest level of purity in a mineral water plant with bottle packaging. Care is also taken while bottling mineral water so that no contaminants can deteriorate water quality.

As manufacturers of mineral water bottling plants, we have created systems that function flawlessly together. We also provide an unmatched assortment of Mineral Water Treatment & Packaging machinery as suppliers.

# MINERAL WATER PLANT PRODUCTION:

Mineral water plant consists of:

- Water treatment unit
- Packaging unit

## MINERAL WATER TREATMENT UNIT BY MANUFACTURER:

Water treatment unit consist of:

- Chlorine/Hypochlorite Dosing System
- Raw Water Storage Tank
- Antiscalant Dosing System
- Micron Filters
- OZONE GENERATOR

### CHLORINE/HYPOCHLORITE DOSING SYSTEM:

In bottled mineral water plant before filtration iron and manganese present in raw water is disinfected/oxidized by a chlorine/hypochlorite dosing system. This is done by dosing raw water with 3-4ppm of sodium hypochlorite solution which forms hypochlorite acid on reaction with water. hypochlorite acid is a disinfecting agent. This process is done in a LDPE chemical preparation tank with an electronic diaphragm type dosing pump.

### RAW WATER STORAGE TANK:

After chlorine nation raw water is stored a detention time as per process.

### ANTISCALANT DOSING SYSTEM:

Calcium and magnesium present in water can scale the membranes and deteriorate water quality. This is prevented by using antiscalant dosing system in Mineral Water Packaging Plant. Dosing is done at a rate of 4-5ppm and is done in a LDPE chemical preparation tank with an electronic diaphragm type dosing pump.

### MICRON FILTERS:

Micro filtration is done by using cartridge filters of 0/10 Micron, 5 Micron, and 1 Micron. This needs to be replaced periodically as it is a consumable item.

## **OZONE GENERATOR:**

Microorganisms that may redevelop in water after filtration are removed by ozone generator.



## **MINERAL WATER PACKAGING UNIT:**

Mineral Water Packaging unit consists of:

- Bottle Manufacturing by PET Blowing Machine
- Rinsing – Filling – Capping – Sealing Machine
- Labeling
- Final Packing
- Bottle Manufacturing by PET Blowing Machine

### **BOTTLE MANUFACTURING BY PET BLOWING MACHINE:**

Semi and automatic operations are used for manufacturing PET bottles of different sized. About 36000 bottles are manufactured per hour.

#### **Rinsing – Filling – Capping – Sealing Machine:**

In mineral water production plant the bottles then go to a machine that automatically rinses them, fills them with water and screws the cap on them. Before being screwed on the bottle, the caps are stamp with the expiry and manufacturing date.

### **MINERAL WATER BOTTLE LABELING:**

The labels and neck sleeves are put on the bottles in this stage.

### **FINAL PACKAGING OF BOTTLED MINERAL WATER:**

The packaging machines can either be fully automatic or semi-automatic. In this step bottles are packed in cartons and are ready to be shipped.

Moreover, as an exporter Waterman Engineers Australia ensures that all systems meet regulatory requirements and offer high productivity and lifespan.

## **MINERAL WATER TREATMENT MACHINE DESIGN BY MANUFACTURER, SUPPLIER AND EXPORTER:**

### **Treatment unit:**

- Material: Stainless steel
- Voltage: 440V
- Frequency: 50Hz
- Power source: Electric
- Filtration process: Ro filtration

## **MINERAL WATER PACKAGING UNIT:**

### **Treatment unit:**

- Capacity: 60 bottles per min
- Power consumption: 2 HP
- Container type: Bottle
- Frequency: 50Hz
- Voltage: 220V



# ADVANTAGES OF MINERAL WATER FILLING AND PACKAGING MACHINES:

- Corrosion resistance
- Safe purification of water
- Low operational cost
- Rugged construction
- Dimensional accuracy
- Energy efficient
- Bottled water is pure and filtered
- No harmful chemicals
- Removed harmful microorganisms

## Mineral Water Bottling Plant Frequently Asked Questions

### Q. What is a mineral water bottling plant, and how does it work?

**A.** Mineral water bottling plant is a facility designed to purify, package, and distribute mineral water for commercial sale. The process typically involves several stages, including water treatment, filtration, disinfection, bottling, and packaging. The water undergoes rigorous quality testing to ensure it meets regulatory standards before it is bottled and labeled for sale.

### Q. What are the key components of a mineral water bottling plant?

**A.** Mineral water bottling plant consists of several key components that work together to facilitate the production process. These components include a water treatment system, which employs various purification techniques to ensure the removal of impurities and contaminants from the water. Additionally, there is bottle washing equipment that cleans and sterilizes the bottles prior to filling. Filling and capping machines are used to automatically fill the bottles with water and seal them with caps. Lastly, labeling and packaging machinery plays a crucial role in applying labels, packaging the bottles, and preparing them for distribution.

### Q. How is the packaging unit in a mineral water bottling plant structured?

**A.** Packaging unit in a mineral water bottling plant is responsible for bottling and packaging the purified water for distribution. Empty bottles are thoroughly cleaned and rinsed to ensure they are free from any contaminants. The bottles are filled with purified water using automated filling machines. The filling process ensures accurate volume and proper sealing to maintain hygiene. Bottles are then capped and labeled with the necessary information, such as the brand name, product details, and expiration date. Packaged bottles go through quality checks, including visual inspection, leak testing, and verification of labeling accuracy. The bottles are packed in cases or shrink-wrapped, and the cases or pallets are stacked for storage or transportation.

## Q. What quality control measures are implemented in a mineral water bottling plant?

**A.** Mineral water bottling plants implement rigorous quality control measures to maintain high standards of water purity and safety. These measures typically include regular water testing to monitor the quality of the water, including checks for chemical composition, pH levels, and microbial contamination. Additionally, equipment maintenance is performed to ensure that all machinery and equipment are regularly inspected, calibrated, and serviced to prevent any contamination or defects. Strict hygiene protocols are followed, which involve proper cleaning and sanitization of equipment, pipelines, and storage tanks. Compliance with regulations set by local and international authorities, such as the Food and Drug Administration (FDA), is also a crucial aspect of quality control in mineral water bottling plants.

## Q. How can a mineral water bottling plant ensure the safety of its products?

**A.** Ensuring the safety of bottled water products is of utmost importance in mineral water bottling plants. Several measures are taken to achieve this goal. Firstly, the selection of a clean and reliable water source is vital to avoid contaminants. Water treatment processes such as filtration, disinfection, and sterilization are employed to eliminate impurities and kill microorganisms. Regular testing of the water during and after the bottling process is conducted to ensure it meets regulatory standards and is free from harmful substances. Packaging integrity is also a focus area, with high-quality bottles and caps used, ensuring proper sealing to prevent contamination.

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Waterman Engineers Australia is a manufacturer, exporter and supplier of water wastewater treatment plants, RO plants (Reverse Osmosis Plant), Desalination plants, Effluent recycling Systems, Zero liquid discharge systems (ZLD System), Caustic recovery plants, Water filtration systems, Drinking water plants, Arsenic removal systems for drinking and industrial water, Mineral water plant, Sewage treatment plants, Solid & Liquid waste incinerator systems, Textile Mining Pharmaceutical effluent treatment plants, Solar based water wastewater sewage treatment plants etc., with decades of experience in water wastewater treatment from concept to commissioning.

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